

IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

Claims 1-12 (canceled).

13. (currently amended) A computer operation managing system which includes a managing computer and a plurality of computers to be managed, wherein each of said plurality of computers to be managed comprises: a unit which receives operation defining information from said managing computer,

a unit which causes execution of an operation processing including at least one of job execution control, power supply control and printing execution control in accordance with the operation defining information from said receiving unit,

a unit which transmits a result of the execution by said execution causing unit to said managing computer, and

a unit, responsive to an instruction from said managing computer, for collecting management information including load information of said computer to be managed and returning the collected information to said managing computer;

wherein said managing computer comprises:

a management information control portion including a unit which collects the managing information and the execution result transmitted from the managed computer,

a unit, coupled to said collecting unit of the managing computer, for managing operation of the managed computers using the operation defining information transmitted to the managed computers, the collected management information and the execution result, and

an integrated managing screen display unit displaying a state of management by the managing computer on a screen~~according to claim 9,~~

wherein said integrated managing screen display unit represents a connection relationship among the managed computers by links among symbols and representing an operation state of a relevant managed computer in the form of a symbol color, represents each of operations executed on the computers in the form of a symbol represents an execution order of operations by links with directions among symbols and representing an execution state of the operation in the form of a symbol color, and represents a connection relationship among the managed computers by links among symbols and representing an operation state of the relevant computer in the form of a symbol color.~~portion comprises:~~

~~a unit, responsive to designation of a specified managed computer on a display screen displaying a configuration of a set of computers, changing the screen to display details of operation execution state on a relevant managed computer including any of a list of defined jobs, a list of jobs under execution and information of past execution history; and~~

~~a unit which designates a specified message on a relevant screen from a monitoring screen displaying by a message an operation state of an execution result of an operation system or a computer system to display on another screen of the~~

~~same console, a configuration display screen of a set of computers including managed computers related with said message or an operation configuration screen related with said message.~~

14. (currently amended) A computer operation managing system which includes a managing computer and a plurality of computers to be managed, wherein each of said plurality of computers to be managed comprises:
a unit which receives operation defining information from said managing computer,
a unit which causes execution of an operation processing including at least one of job execution control, power supply control and printing execution control in accordance with the operation defining information from said receiving unit,
a unit which transmits a result of the execution by said execution causing unit to said managing computer, and
a unit, responsive to an instruction from said managing computer, for collecting management information including load information of said computer to be managed and returning the collected information to said managing computer;
wherein said managing computer comprises:
a management information control portion including a unit which collects the managing information and the execution result transmitted from the managed computer,
a unit, coupled to said collecting unit of the managing computer, for managing operation of the managed computers using the operation defining information

transmitted to the managed computers, the collected management information and the execution result, and

an integrated managing screen display unit displaying a state of management by the managing computer on a screen~~according to claim 1,~~

wherein said integrated managing screen display unit changes the screen to display details of operation execution state on a relevant managed computer including any of a list of defined job, a list of jobs under execution and information of past execution history responsive to designation of specified managed computer on a display screen displays a configuration of a set of computers, and designates a specified message on a relevant screen from monitoring screen displaying by a message an operation state of an execution result of an operation system or a computer system to display on another screen of the same consider, a configuration display of a set of computers including managed computers related with said message or an operation configuration screen related with said message. ~~portion~~ comprises:

~~a computer monitoring unit representing a connection relationship among the managed computers by links among symbols and representing an operation state of a relevant managed computer in the form of a symbol color;~~

~~an operation monitoring unit representing each of operations executed on the computer in the form of a symbol, representing an execution order of operations by links with directions among symbols and representing an execution state of the operation in the form of a symbol color; and~~

~~an operation monitoring unit representing a connection relationship among the managed computers by links among symbols and representing an operation state of the relevant computer in the form of a symbol color.~~

15. (currently amended) A computer operation managing system which includes a managing computer and a plurality of computers to be managed,

wherein each of said plurality of computers to be managed comprises:

a unit which receives operation defining information from said managing computer,

a unit which causes execution of an operation processing including at least one of job execution control, power supply control and printing execution control in accordance with the operation defining information from said receiving unit,

a unit which transmits a result of the execution by said execution causing unit to said managing computer, and

a unit, responsive to an instruction from said managing computer, for collecting management information including load information of said computer to be managed and returning the collected information to said managing computer;

wherein said managing computer comprises:

a management information control portion including a unit which collects the managing information and the execution result transmitted from the managed computer,

a unit, coupled to said collecting unit of the managing computer, for managing operation of the managed computers using the operation defining information

transmitted to the managed computers, the collected management information and the execution result, and

an integrated managing screen display unit displaying a state of management by the managing computer on a screen~~according to claim 9,~~

wherein said integrated managing screen display unit relates to a particular computer with an operation executed on the computers switching a monitoring screen displayed by an operation monitoring unit and a monitoring screen displayed by a computer monitoring unit alternately for display to manifest the relation between the operation and the computer.~~portion further comprises:~~

~~a unit relating a particular computer with an operation executed on the computers switching a monitoring screen displayed by an operation monitoring unit and a monitoring screen displayed by a computer monitoring unit alternately for display to manifest the relation between the operation and the computer.~~

16. (new) A managing computer for managing a plurality of computers via a network, comprising:

a network interface;

a control unit connected to said network interface; and

a storage unit for storing execution information regarding a process pre-defined for execution to each computer included in each group, said each group being pre-set so as to include at least one of said plurality of computers,

wherein said control unit provides an output on a screen so as to display a process executed by said at least one computer with a first symbol, an execution

sequence of processes with a link having a direction between symbols, and an execution condition of each process with a display aspect of said first symbol,

wherein said control unit specifies a group containing a computer executing the process represented by said output first symbol from the pre-set groups stored in said storage unit,

wherein said control unit, based on said specifying of group, represents the computer executing the process represented by said first symbol and another computer included in said group with a second symbol in a different aspect, respectively, and outputs on said screen, said second symbol together with a connecting relation with the computers included in said group.

17. (new) A managing computer according to claim 16, wherein said storage unit stores an identifier for identifying at least one computer constituting a pre-set group to relate with the corresponding computer in each group, accepts said execution information while including an computer identifier specifying a computer by which a process is executed, from said computer via said network interface, and stores process identifiers specifying a plurality of processes executed by said at least one computer therein to correspond with said computer identifiers,

wherein said control unit refers to said storage unit, outputs a display aspect of said first symbol based on said process execution information, performs said specifying of group based on a computer identifier specifying a computer executing the process represented by said first symbol, and

wherein when an input device connected to said control unit selects said outputted second symbol, said control unit extracts execution information of a process executed by a computer corresponding to said second symbol from said storage unit, and outputs a process executing condition to said screen.

18. (new) A managing computer according to claim 16, wherein said group is comprised of computers which execute a plurality of pre-defined processes by combination of the computers via said network.

19. (new) A managing computer according to claim 16, wherein said control unit acquires condition information of said computer including a computer identifier specifying said computer via said network interface, from said computer, stores in said storage unit condition information of a computer included in the pre-set group based on said computer and specifies a display aspect of said second symbol based on said acquired condition information.

20. (new) A managing computer according to claim 17, wherein said control unit acquires computer condition information of said computer including a computer identifier specifying said computer via said network interface from said computer, stores in said storage unit the condition information to correspond with the computer identifier correlated with said group based on the computer identifier included in said condition information.

21. (new) A managing computer according to claim 16, wherein said control unit outputs said first symbol to the screen and displays an area requested for display of a configuration of a computer system and accepts the requested area via an input device connected to said control unit to output said second symbol to said screen.

22. (new) A managing computer according to claim 16, wherein in response to reception of a specified event from said computer via said network interface, said control unit transmits a program indicative of an executed content of a predetermined process to a predetermined computer.

23. (new) A managing computer according to claim 22, wherein in response to abnormal termination of said process based on said received event, said control unit refers to the condition information stored in said storage unit to instruct the computers operated under normal condition to retry the process concerned by back tracking to a time instant when the operation can be retried.

24. (new) A managing computer according to claim 23, wherein said execution information includes a scheduled execution time instant of said process and a time instant of a execution result, and

wherein said control unit acquires said process execution information from said computer via the network interface, determines whether to switch between the computers based on the acquired process execution information, and in response to

a result of the determination, switches to another computer a load of which is lower than a predetermined load to execute the process from a next execution point.